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Technical Update

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GENERAL INFORMATION

Equipment Type: Phoenix

Subject: Communications Phoenix – Configuration Exalis

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This document describes how to configure the Phoenix network settings for use with the Gambro Exalis ethernet-based communications system. “Exalis” is a registered trademark of Gambro.

Network settings can be thought of as "Correct Settings" and "Current Settings". Correct Settings are the settings your Phoenix needs for proper operation. Current Settings are the actual settings on your Phoenix at this moment -- they may or may not be correct.

Please read the Tech Bulletin "**Communications Phoenix - Primer**" before using this document. The "Primer" addresses the terminology, techniques, and background information needed to understand this document.

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1. When to Re-Configure Network Settings

The network settings on the Phoenix must be re-configured in each of the following cases.

- When receiving a Phoenix as a new purchase or from another dialysis unit.
- After reloading Phoenix software.
- After using the Tech Card to apply settings to a Phoenix.
- When using Exalis for the first time.
- When your IT department has made a non-transparent change to the dialysis network.
- When the Blue Screen does not display the Correct Settings.

2. Current Settings

The only certain way to determine the Current Settings of a Phoenix is to restart the Phoenix and record the Blue Screen. If any line of the Blue Screen does not match the correct settings, then you'll know exactly which network configuration screen to go to in order to fix the problem.

See Sections 1.2 and 1.3 in the Tech Bulletin "**Communications Phoenix - Primer**" for an in-depth discussion of the Blue Screen.

3. Steps for Configuring Phoenix Network Settings

Follow the steps below in sequence to configure the Network Settings for your Phoenix.

3.1. Determine the Correct Settings

Determine the Correct Settings for this Phoenix. There are two ways to determine Correct Settings.

- For new installations: Your IT department or the vendor of your data collection software will tell you the correct settings for each Phoenix.
- For existing installations: Record the network settings from one Phoenix that is working. Only the Machine ID (CCM ID) and the fourth number in the IP Address will differ.

Note: All Phoenix will have all the same network settings except for Machine ID (CCM ID) and the fourth number in the IP Address (both are shown with gray cells in the table below). The Machine ID (CCM ID) and the fourth number in the IP Address are always unique to each Phoenix.

For new installations using the Gambro Exalis data collection software, your **IT department** in conjunction with the **Gambro Exalis installer** will determine the correct network settings for each Phoenix.

3.2. Record the Correct Settings

Record the Correct Settings in this table for easy reference.

COMM Screens 1 and 2

CCM ID _____			
COMM SYSTEM RIMS			OFFLINE TIMEOUT 1:30
IP ADDRESS _____	2nd _____	3rd _____	4th _____
SUBNET MASK _____	2nd _____	3rd _____	4th _____
GATEWAY _____	2nd _____	3rd _____	4th _____

Remember that the following fields are always ALL ZEROES:

- NET ROUTE1 and MASK ROUTE1 (eight fields on COMM screen 2).
- SECURE LEVEL (all 32 fields on both NET CONFIG screens).

3.3. COMM Screens

Enter the Correct Settings onto the COMM Screens. Follow the steps below.

1. Ensure the Phoenix is in Idle mode.
2. Select the Navigation Keys: **HOME►CONFIG►MACHINE►COMM**.
3. Press the SET button.
4. Set the CCM ID.
5. Set COMM SYSTEM = RIMS.
6. Set the IP ADDRESS (confirm ALL values).
7. Set the SUBNET MASK (confirm ALL values).
8. Press the "NEXT" button.
9. Set the GATEWAY (confirm ALL values).
10. Set the NET ROUTE1 to ALL zeroes (confirm ALL values).
11. Set the MASK ROUTE1 to ALL zeroes (confirm ALL values).
12. Press the "PREV" button.
13. Exalis users must reset COMM SYSTEM = EXALIS. All other users must retain "RIMS".
14. Press the SET button.
15. Return to the HOME screen.

COMM Screens 1 and 2

Remember to CONFIRM all values EVEN if they already APPEAR CORRECT. This means

1. Tap the key so it turns yellow.
2. Press the CONFIRM button on the Control Panel.

See Section 1.4 in the Tech Bulletin "**Communications Phoenix - Primer**" for an in-depth discussion of the COMM Screens.

3.4. NET CONFIG Screens

Set ALL values to ZERO on both NET CONFIG Screen 1 and 2. There are a total of 32 values to set. Remember to CONFIRM all values even if they already appear correct.

Follow the steps below.

1. Ensure the Phoenix is in Idle mode.
2. Select the Navigation Keys: **HOME►MACHINE►CALIB**.
3. Press the SET button.
4. Set the PASSWORD CODE to 65505.
5. Press the CONFIRM button.
6. Press the SET button.
7. Select the Action Keys: **OPERATIONS►MAIN SETTING►NET CONFIG**.
8. Press the SET button.
9. Set all 16 values to zero on NET CONFIG Screen 1 (confirm ALL values).
10. Press the "NEXT" button.
11. Set all 16 values to zero on NET CONFIG Screen 2 (confirm ALL values).
12. Press the SET button to get out of edit-mode.
13. Press the CLOSE Action Key (3 times) to return to the HOME screen.

NET CONFIG Screens 1 and 2

ADDR 1st LEVEL 0
ADDR 1st LEVEL 2nd 0
ADDR 1st LEVEL 3rd 0
ADDR 1st LEVEL 4th 0
MASK 1st LEVEL 0
MASK 1st LEVEL 2nd 0
MASK 1st LEVEL 3rd 0
MASK 1st LEVEL 4th 0
ADDR 2nd LEVEL 0
ADDR 2nd LEVEL 2nd 0
ADDR 2nd LEVEL 3rd 0
ADDR 2nd LEVEL 4th 0
MASK 2nd LEVEL 0
MASK 2nd LEVEL 2nd 0
MASK 2nd LEVEL 3rd 0
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MASK 3rd LEVEL 2nd 0
MASK 3rd LEVEL 3rd 0
MASK 3rd LEVEL 4th 0
ADDR 4th LEVEL 0
ADDR 4th LEVEL 2nd 0
ADDR 4th LEVEL 3rd 0
ADDR 4th LEVEL 4th 0
MASK 4th LEVEL 0
MASK 4th LEVEL 2nd 0
MASK 4th LEVEL 3rd 0
MASK 4th LEVEL 4th 0

Remember to CONFIRM ALL values EVEN if they already APPEAR CORRECT. This means

3. Tap the key so it turns yellow.
4. Press the CONFIRM button on the Control Panel.

See Section 1.5 in the Tech Bulletin "**Communications Phoenix - Primer**" for an in-depth discussion of the NET CONFIG Screens.

3.5. Restart the Phoenix

Restart the Phoenix -- turn the power Off, wait 5 seconds, then turn the power On. A restart is necessary to accept to new network settings. Verify that the Blue Screen shows the Correct Settings during this restart. Now the Phoenix Network Settings are fully configured.

4. Test Your Phoenix

Your Phoenix is now ready for testing.

4.1. Verify that the Blue Screen is Correct

The first test is to verify that the Blue Screen shows the Correct Settings. This is best done when restarting the Phoenix (Step 3.5).

4.2. Add this Phoenix to Your Data Collection Software

Ensure that Exalis knows the CCM ID and IP Address of this particular Phoenix. If this Phoenix is new to your dialysis unit, you will have to add it to your data collection software.

Exalis contains a list of Machine IDs (CCM IDs) and IP Addresses that is supposed to match every Phoenix in use. If you add a new Phoenix to the dialysis unit, you must add the new Phoenix to Exalis. If a particular Phoenix is not listed in Exalis, then Exalis will never even try to communicate with the Phoenix.

- Use the Exalis "**Layout**" function for adding a new Phoenix to Exalis.
- Refer to "Define the facility layout" in Section 1.5 of the Exalis Operator Manual.
- To open the Exalis Operator Manual, select **Help►User Manual (pdf)** from the menu.

4.3. Connect the Phoenix to the Network

Connect the Phoenix to the network. Verify that the Phoenix comes online.

If the Phoenix does not come online, perform troubleshooting using the Tech Bulletin "**Communications Phoenix - Troubleshooting**".